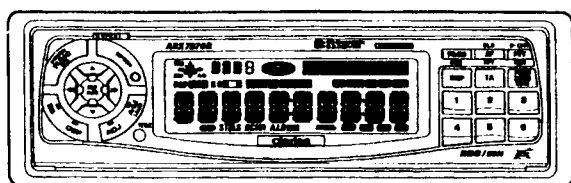


# Service Manual



ARX7370R

RDS-EON/FM-MPX/MW/LW Radio  
Cassette Combination With  
CD Changer Control

Model **ARX7370R**  
(PE-1542E-A/Black panel)

Model **ARX7370RW**  
(PE-1542E-B/Grained panel)

## SPECIFICATIONS

### Radio section

Tuning system: PLL synthesizer tuner  
Receiving frequencies:  
FM 87.5MHz to 108MHz  
MW 531kHz to 1,602kHz  
LW 153kHz to 279kHz

### Tape deck section

Cassette type: Compact audio cassette  
Wow & flutter: 0.06%(WRMS)  
Frequency response: 20Hz to 20kHz(Metal)  
Signal to noise ratio: Metal:58dB  
Dolby B NR:67dB  
Dolby C NR:74dB

### General

Max.power output: 4×35W  
Power supply voltage: 14V DC(10.8 to 15.6V allowable),  
negative ground  
Power consumption: Less than 10A  
Speaker impedance: 4Ω(4Ω to 8Ω allowable)  
Auto antenna rated current:  
500mA or less  
Weight  
Main unit: 1.6kg  
Remote control unit:20g(including battery)

### Dimensions

Main unit: 178(W)×50(H)×152(D)mm  
Remote control unit:40(W)×6.5(H)×86(D)mm

- ※ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- ※ "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- ※ Specifications and design are subject to change without notice for further improvement.

## COMPONENTS

### PE-1542E-A / PE-1542E-B

Main unit		1
Remote controller	RCB-114-300	1
Battery(CR2025BC)		1
Universal mounting bracket	300-967-00	1
DCP case	335-531-00	1
Outer escutcheon		
(ARX7370R)	370-568-01	1
(ARX7370RW)	370-568-02	1
Parts bag		
Hook plate	331-048-00	2
Cord clamp	335-083-01	1
Rubber cap	345-363-01	1
Screw	716-076-01	1
A-lead(for cellular phone)	850-661-00	1

## ■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc., is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc.). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

### 7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

## ■ NOTES

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram. (Figure 1)

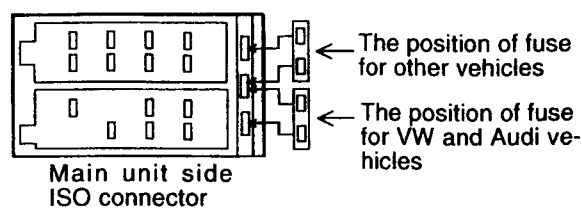


Figure 1

2. The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function. (Figure 2)

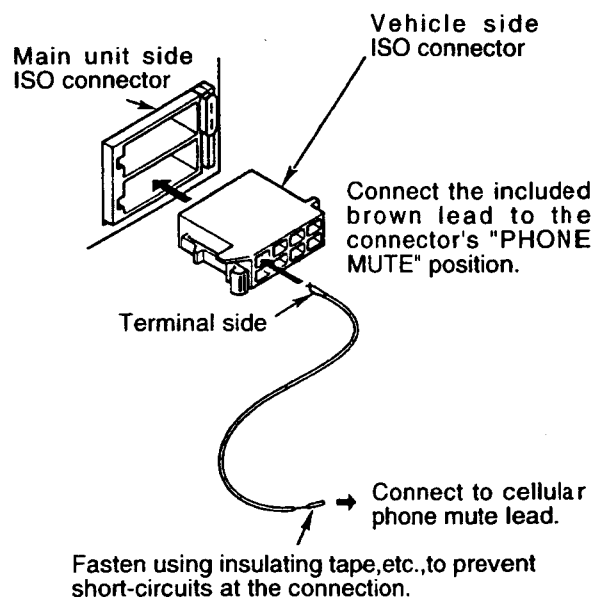
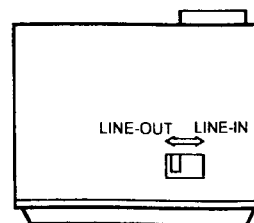


Figure 2

3. The Line IN/OUT switch on the bottom of main unit is initially set to "LINE-OUT".

When using the internal amplifier and connecting an expanded DSP or equalizer module, set the Line IN/OUT switch to "LINE-IN". (Figure 3)

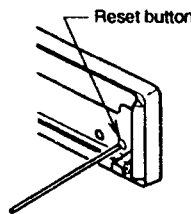
For settings, refer to the "Installation/Wire Connection Guide".



Bottom side of main unit

Figure 3

## ■ TROUBLESHOOTING

Problem	Cause	Solution
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage.
	Incorrect wiring.	Wire properly.
Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc., to clean the head.
	DOLBY NR button is not pressed.	When listening to a tape recorded with Dolby NR, press the DOLBY NR button and select B NR or C NR.
Nothing happens when buttons are pressed. Display is not accurate.	Microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the OPEN button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
	DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
DSP or equalizer does not operate.	Microprocessor has malfunctioned due to noise, etc.	Press Direct button 1 (for more than 2 seconds) while holding in the DSP button, then turn the power back on.

## ■ ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.  
Take the measures described below to eliminate the problem.

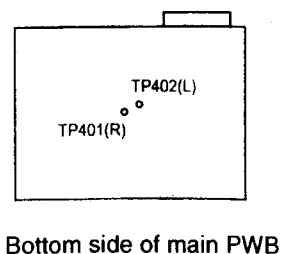
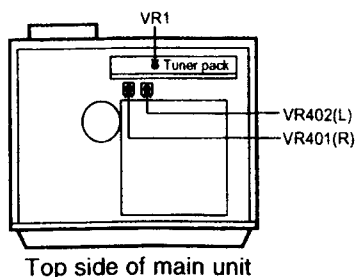
Error Display	Cause	Measure
TAPE ER1	Tape cannot be played due to defective tape such as cut tape.	Eject the tape then replace it with a new one.
TAPE ER2	Tape is caught and cannot be played.	Remove the caught or wound tape.
TAPE ER4	Tape mode cannot be detected.	This is a failure of tape mechanism.
TAPE ER8	Tape is caught and cannot be ejected.	Eliminate the reason for which the tape is caught.
CDCH ER2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
CDCH ER3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
CDCH ER6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
EQ ER99	Communication error between main unit and expanded DSP/EQ.	Connect the expanded DSP/EQ connecting cable securely.

If an error display other than the ones described above appears, press the reset button.

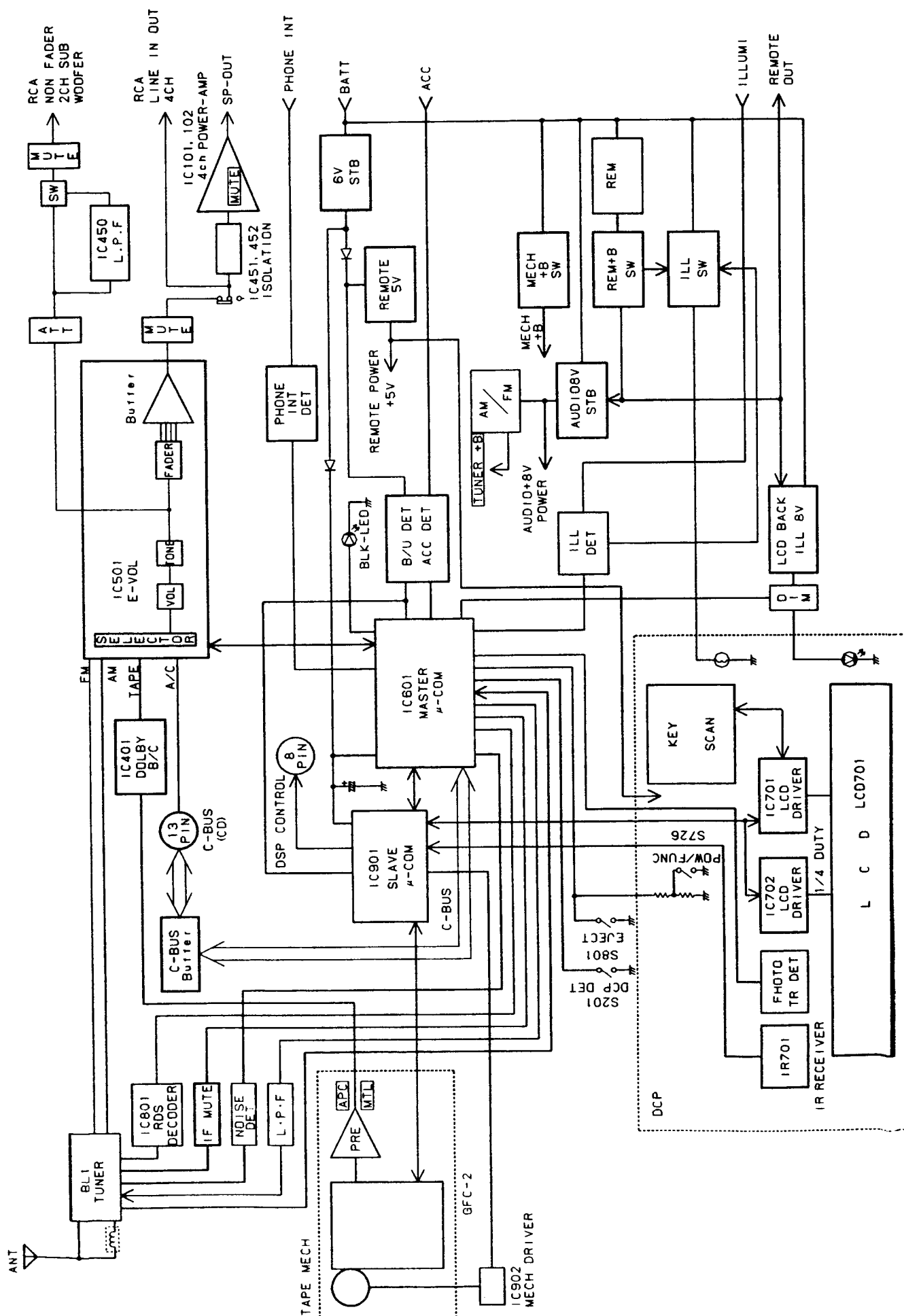
## ■ ADJUSTMENTS

Item	Procedure	Measuring instrument
S-meter	1. Input the 98.1MHz/30dB $\mu$ (400Hz-MOD 30%) signal. 2. Turn on the power switch. and, Press the AF button and CH6 button at the same time. (TEST MODE) 3. Adjust the reading of LCD indicator to [30---00] ( $3.0V \pm 0.2V$ ) by VR1.	SG
Dolby level	1. Insert a Dolby level test tape (400Hz-200nWb/m), connect the AC-volt meter to TP401(R)/TP402(L). 2. Adjust VR401(R) and VR402(L) to obtain an output of $388mV + 1.5/-0.5dB$ . (Dolby switch: OFF)	AC-volmeter Dolby level tape

Adjustment point



## ■ BLOCK DIAGRAM



## ■ EXPLANATION OF IC

■  $\mu$ PD78058FGC-044-3B9 052-3330-00 System Controller (Slave micro computer)

Outward Form  
80 pins, plastic QFP

### Terminal Description

No.	Symbol	I/O	Function
1	N.C.	-	Not in use
2	AUTO CLOSE	I	For "H": Auto close function available
3	S/A	I	For Hi, select type S' where slope console is controlled. For Low, select type A where slope console is not controlled.
4	AVSS	-	GND
5	N.C.	-	Not in use
6	N.C.	-	Not in use
7	AVREFI	I	Standard voltage input for A/D converter
8	B.B.RxD	I	Communication line with B.B. DSP
9	B.B.TxD	O	
10	N.C.	-	Not in use
11	LCD SI	I	Serial data communication line with LCD drive IC
12	LCD SO	O	
13	LCD SCK	O	
14	LCD CE	O	
15	MAIN REQ	I	Serial data communication line with master computer
16	MAIN SI	I	
17	MAIN SO	I	
18	MAIN SCK	I	
19	MAIN BUSY	O	
20	N.C.	-	Not in use
25	N.C.	-	Not in use
26	DCP 5V	O	DCP: Vdd power supply ON signal output terminal
27	N.C.	-	Not in use
30	N.C.	-	Not in use
31	SUB W VOL1	O	Sub woofer level setting signal output
32	SUB W VOL2	O	
			pin 31 L L H H
			pin 32 L H L H
			ATT(dB) 0 -4 -6 -8
33	VSS	-	GND
34	N.C.	-	Not in use
35	N.C.	-	Not in use
36	N-FAD/SBW	O	Non fader/sub woofer switch output terminal Outputs "H" for woofer
37	DOLBY B/C	O	Outputs "L" for Dolby B, "H" for Dolby C
38	DOLBY ON	O	Outputs "H" for Dolby ON
39	SLAVE MUTE	O	Outputs "L" when applying mute
40	FWD/REV	O	Outputs "L" in forward. Output "H" in reverse
41	METAL ON	O	Outputs "H" in EQ=70 $\mu$ S, outputs "L" in EQ=120 $\mu$ S
42	APC DET	I	Inputs "H" in playing unrecorded part
43	APC SENC	O	Sensitivity switching terminal for APC circuit. Switch sensitivity in PLAY or in FF Play mode: Low O/P FF/REW mode: Hi O/P
44	TAPE IN	I	The terminal to detect a cassette pack insertion in EJECT mode. Loading starts when this terminal turns from "L" to "H".
45	REEL PLUSE	I	In PLAY/FF/REW mode, reel rotation pulse signal is input
46	BIT 2	I	Mechanism mode detection input
47	BIT 1	I	
48	BIT 3	I	
			Mechanism mode BIT 1 BIT 2 BIT 3
			EJECT END (NO TAPE) H H H
			LOADING (EJECTING) H H L
			STOP L H L
			FWD-FF (REV-REW) L L H
			FWD-REW (REV-FF) H L L
			FWD-PLAY H L H
			REV-PLAY L H H

No.	Symbol	I/O	Function
49	METAL SW	I	Metal tape detection input. Input "L" for normal tape.
50	P-2	O	Motor control output
51	P-1	O	
			Mechanism in motion P1 P2
			Loading head forward Hi Lo
			Eject head backward Lo Hi
			Keeps the current mode (BRAKE) Hi Hi
			Stop (OFF) Lo Lo
52	MECH MOTOR	O	Control terminal for main motor. Outputs Hi only in PLAY/FF/REW. Outputs Low in other modes and during mode switching.
53	MECH ON	O	Control terminal to provide power supply for cassette mechanism in TAPE mode. Outputs "H" in TAPE mode.
54	OPEN BIAS	O	Outputs Hi in slave micro computer in motion. It supplies bias to OPEN/CLOSE detection switch.
55	SLOPE MOTOR	O	Electrical power supply switching output terminal for slope.
56	MOTOR+	O	Slope motor control output
57	MOTOR-	O	
			Slope motion (+) (-)
			Open motion Hi Lo
			Close motion Lo Hi
			Brake Hi Hi
			Stop Lo Lo
58	OPEN	I	Slope mode detection input
59	CLOSE	I	
			Slope motion OPEN(58) CLOSE(59)
			Open Lo Hi
			Close Hi Lo
			In motion Hi Hi
			Ineffective Lo Lo
60	RESET	I	Micro computer hardware stops when this terminal turns "L"
61	REMOCON	I	Remote control signal input (pulse)
62	B/U DET	I	When this terminal is Low, micro computer detects B/U OFF, then stop oscillating by turning micro computer into STOP mode.
63	5V REM IN	I	When this terminal turns from Low to Hi, it detects ACC+5V is ON and turns from motion mode to STOP mode.
64	B.B. REQ	I	Insertion signal input terminal from B.B. DSP
65	TAPE DOOR	I	Inputs "L" when cassette tape is in the insertion slit
66	LCD DET IN	I	LCD driver. Input terminal for data transfer permission signal
67	GND	-	GND
68	VDD	-	Electrical power supply terminal
69	X2	-	Cellular lock connecting terminal for main system clock oscillation
70	X1	I	
71	IC	-	Connected to GND
72	XT2	-	Not in use
73	XT1	I	
74	AVDD	-	Applied voltage terminal for analog power supply for A/D converter
75	AVREF0	-	Standard applied voltage terminal for A/D converter
76	N.C.	-	Not in use
77	N.C.	-	
80	N.C.	-	

■  $\mu$ PD178018GC-515-3B9 052-1314-00 Master Micro Computer

Outward Form  
80 pins, plastic QFP

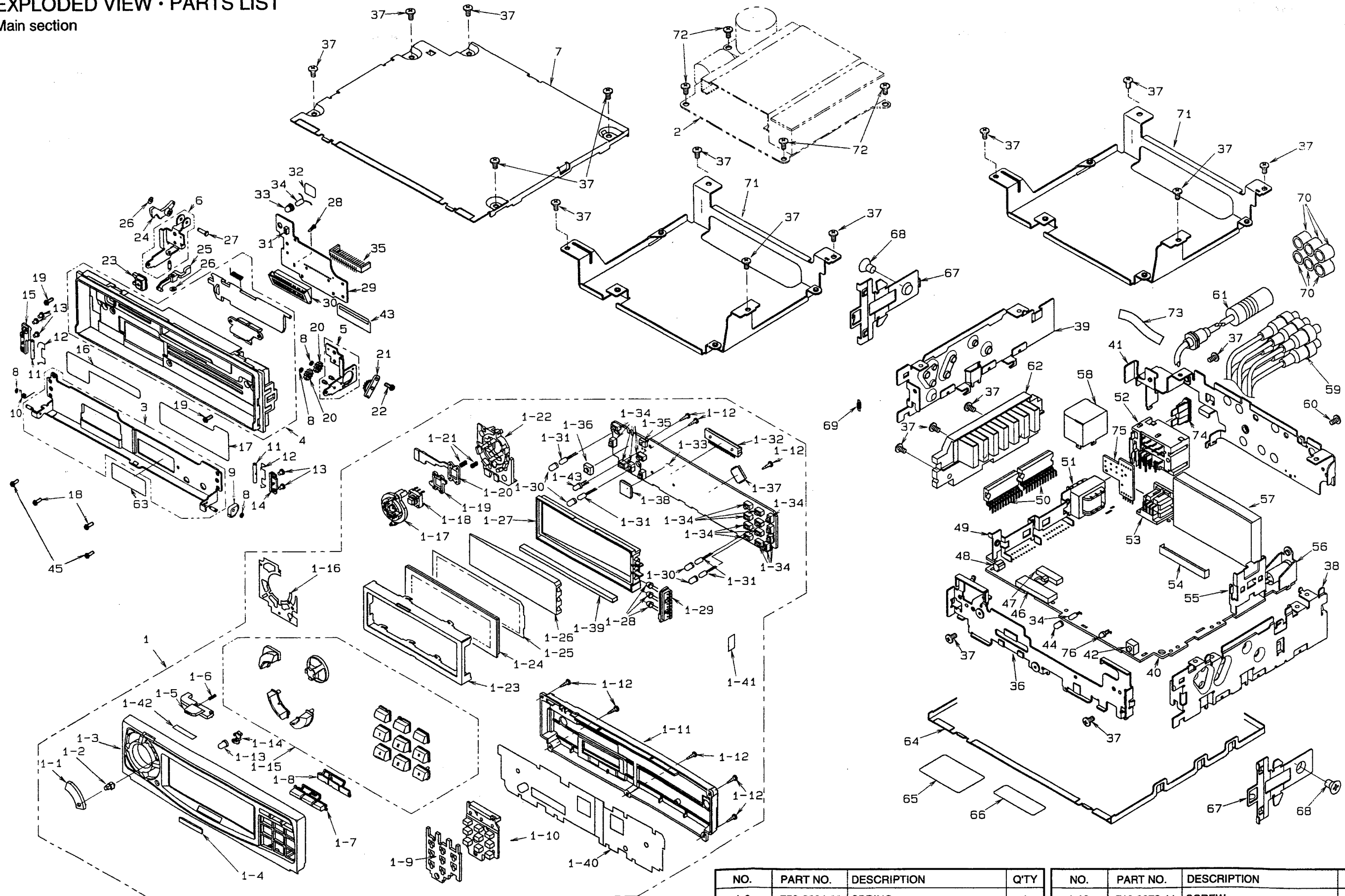
### Terminal Description

No.	Symbol	I/O	Function
1	N.C.	I	Not in use
2	PHOTO TR DET	I	Light quantity detection input terminal for auto dimmer
3	KEY A/D	I	Input terminal for detecting key pushed out of OPEN/EJECT/FUNCTION
4	S-METER	I	Connects FM S meter and changes indication by the wave strength
5	RDS NOISE	I	Noise level detection terminal for FM RDS and SEEK
6	GND	I	Not in use
7	SUB SI	I	Serial communication line with slave micro computer
8	SUB SO	O	
9	SUB SCK	I/O	
10	SUB REQ	O	
11	SUB BUSY	I	
12	C-BUS SI	I	C-BUS data communication line
13	C-BUS SO	O	
14	C-BUS SCK	O	
15	PULSE DIMMER	O	Output terminal for pulse dimmer B/L LED ON signal
16	SD OPEN	O	Not in use
17	FM LOCAL	O	Outputs Low when the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output.
18	SD UP	O	Not in use
19	AM LOCAL	O	Outputs Hi when the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output.
20	REM OUT SAV	O	Not in use
21	GND PORT	-	GND
22	VDD PORT	-	Power supply terminal
23	SOFT MUTE	O	Output terminal for switching an FM SOFT MUTE constant
24	SYS MUTE	O	Output terminal for system mute signal
25	IF REQ	O	FM diversity output terminal. Outputs Hi in RADIO mode, FM, diver ON; outputs Low in diver OFF
26	RDS MUTE	O	RDS output terminal for noise reduction during follow-up motion
27	RDS DISCHG	O	RDS output terminal for discharging the voltage detected by RDS NOISE (5 pin)
28	AM IFC	I	AM IF count signal input terminal
29	FM IFC	I	FM IF count signal input terminal
30	VDD PLL	-	PLL power supply terminal
31	VCO H	I	Not in use
32	VCO L	I	
33	GND	-	GND
34	EO 0	O	Not in use
35	EO 1	O	
36	IC	-	GND
37	AM SD	I	Detection terminal for AM SD. Judges SD ON by Hi
38	FM SD	I	Detection terminal for FM SD. Judges SD ON by Hi
39	FM ST	I	Detecting terminal for FM stereo indicator
40	RDS DATA	I	Inputs data from RDS decoder
41	ILLUMI DET	I	Illumination signal detection terminal
42	+B REM	O	Outputs Hi by power ON, supplying +B power
43	EVOL CLK	O	Serial data communication line to electronic volume IC
44	EVOL DATA	O	
45	RDS +B REM	O	Spare terminal for RDS decoder power ON

No.	Symbol	I/O	Function
46	FM ON	O	Output terminal for FM ON signal
47	AM ON	O	Output terminal for AM ON signal
48	5V REM	O	Outputs signal for 5V power ON around micro computer
49	C-BUS SRQ	I	Request signal input terminal reading status from slave microcomputer. When this terminal turns Low it detects the status reading requested
50	EJECT LAMP	O	Eject key illumination output terminal
51	H/L DIMMER	O	Not in use
52	GND	I	GND
53	PLL DI	I	PLL data communication terminal with PLL IC
54	PLL SCK	O	
55	PLL DO	O	
56	PLL CE	O	
57	GND	I	Not in use
59	GND	I	Not in use
60	BLINKING LED	O	LED flashing output signal
61	KEY ILL	O	Outputs signal for DCP key illumination lighting
62	LCD DET OUT	I	LCD display ON/OFF control port. Connected to slave micro computer
63	GND	I	GND
66	GND	I	GND
67	RDS CLK	I	Clock signal input from RDS decoder
68	B/U DET	I	When this terminal turns Low, micro computer detects the B/U OFF and turns micro computer to STOP mode, stopping oscillation
69	ACC DET	I	ON/OFF detection terminal for ACC power supply
70	DCP DET	I	DCP removal/installation detection terminal. Hi when DCP removed; Low when DCP installed
71	KEY INT	I	Key insertion input terminal. Low when EJECT key or FUNC(POWER) key pushed. When this terminal turns Low, key A/D terminal detects the key pushed
72	GND	-	GND
73	PHONE INT	I	Input terminal for phone interrupt/cellular
74	REG CPU	-	Regulator terminal for CPU power supply. Connected to pass con against noise
75	GND	-	GND
76	X2	-	Connecting terminal for oscillating crystal for main system clock
77	X1	I	
78	REG OSC	-	Power supply regulator terminal for oscillator. Connected to pass con against noise
79	VDD	-	Power supply terminal
80	RESET	I	Micro computer will stop by turning this terminal to "Low"

# EXPLODED VIEW · PARTS LIST

Main section



NO.	PART NO.	DESCRIPTION	Q'TY
1	940-1820A	DCP ASS'Y(ARX7370R)	1
	940-1795A	DCP ASS'Y(ARX7370RW)	1
1-1	335-5255-00	IR FILTER	1
1-2	335-5256-00	INDICATOR LENS	1

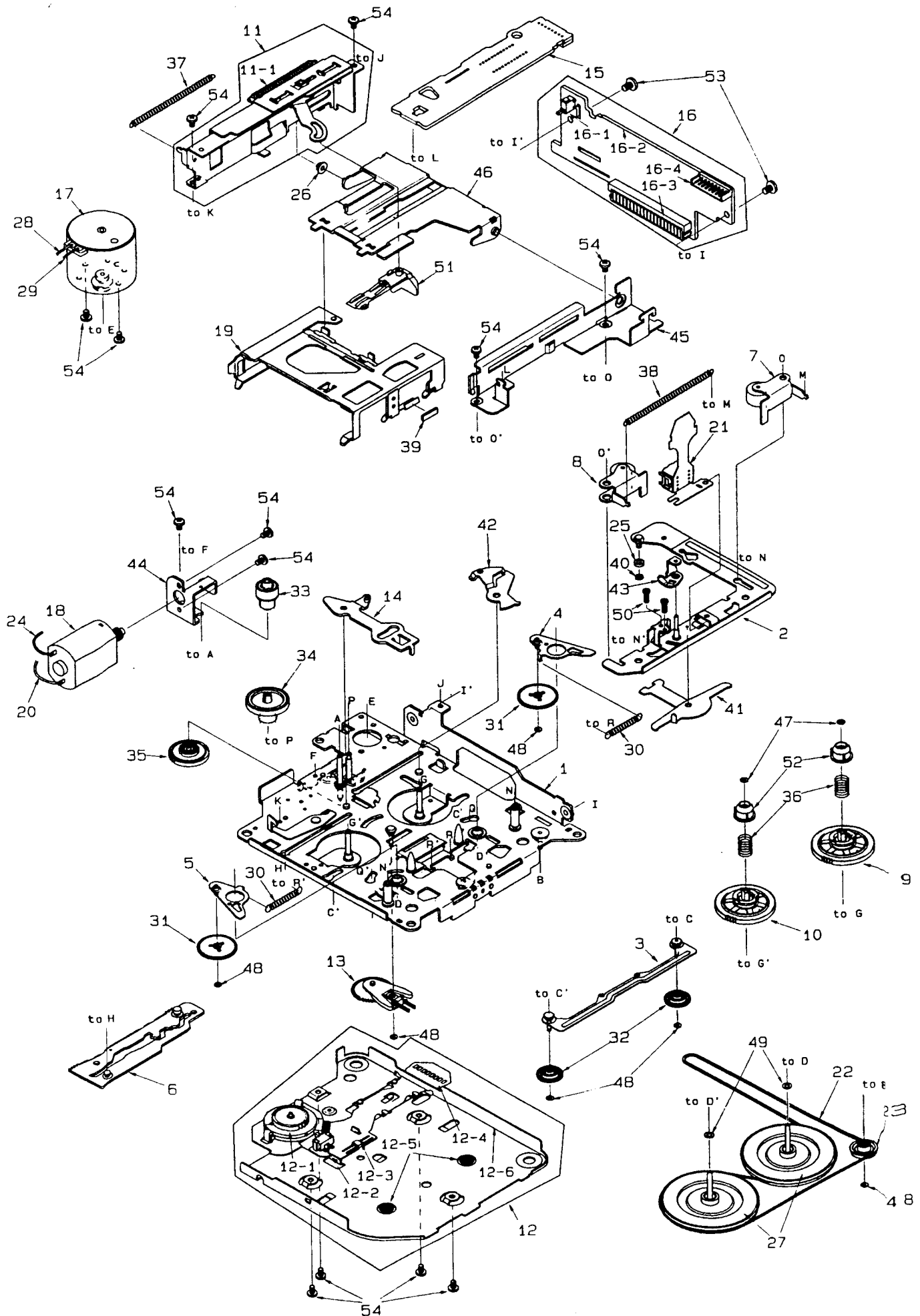
NO.	PART NO.	DESCRIPTION	Q'TY
1-3	370-5631-00	ESCUTCHEON(ARX7370R)	1
	370-5631-02	ESCUTCHEON(ARX7370RW)	1
1-4	378-0134-00	BADGE(Clarion)	1
1-5	382-4385-00	BUTTON(OPEN)	1

NO.	PART NO.	DESCRIPTION	Q'TY
1-6	750-3224-00	SPRING	1
1-7	382-4384-01	BUTTON(PS/AS,AF,PTY)	1
1-8	335-5258-00	BUTTON HOLDER	1
1-9	345-7863-00	SPONGE(R)	1
1-10	335-5259-00	ILLUMI PLATE	1
1-11	335-5261-00	REAR COVER	1

NO.	PART NO.	DESCRIPTION	Q'TY
1-12	716-0872-11	SCREW	8
1-13	382-4386-00	BUTTON(TITLE)	1
1-14	335-5257-00	BUTTON HOLDER	1
1-15	947-0425-00	BUTTON ASS'Y	1
1-16	347-5432-00	FILM	1
1-17	335-5275-00	JOG HOLDER	1

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1-18	013-9901-00	JOG SWITCH	1	27	341-1635-00	SHAFT	1
1-19	335-5276-00	SPACER	1	28	716-0872-00	PAD SCREW	1
1-20	039-0857-00	JOG SWITCH PWB	1	29	039-0832-00	DCP SUB PWB	1
1-21	750-3248-00	SPRING	2	30	074-1145-00	OUTLET SOCKET(15P)	1
1-22	335-5277-00	ILLUMI PLATE	1	31	013-3853-00	SWITCH(EJECT)	1
1-23	331-1977-00	LCD COVER	1	32	353-0359-00	SHADE	1
1-24	379-1079-41	LCD	1	33	345-7148-13	LAMP CAP	1
1-25	347-5408-00	CCS FILM	1	34	017-0345-09	PILOT LAMP	2
1-26	335-5262-00	LCD ILLUMI	1	35	076-0448-14	PLUG(14P)	1
1-27	335-5260-00	LCD HOLDER	1	36	309-0679-00	FRONT PLATE	1
1-28	001-7030-00	LED	3	37	731-3006-80	TAPTIGHT	15
1-29	335-5263-00	LED HOLDER	1	38	305-0247-01	SIDE COVER(R)	1
1-30	345-4441-37	LAMP CAP	4	39	305-0242-01	SIDE COVER(L)	1
1-31	017-0444-00	PILOT LAMP	4	40	039-0886-00	MAIN PWB	1
1-32	076-0535-00	PLUG(15P)	1	41	307-0579-00	REAR COVER	1
1-33	039-0860-00	SWITCH PWB	1	42	013-3932-00	SWITCH(RESET)	1
1-34	013-6302-01	SWITCH	18	43	347-5431-00	SPACER	1
1-35	060-4008-00	IR-RECEIVER	1	44	345-4441-50	LAMP CAP	1
1-36	013-6006-00	SWITCH	1	45	714-2605-17	MACHINE SCREW	2
1-37	051-6013-00	IC(LC75854W)	1	46	074-1012-14	OUTLET SOCKET(14P)	1
1-38	051-6022-00	IC(LC75824W)	1	47	013-5102-01	SWITCH(OUT-IN)	1
1-39	345-7864-00	RUBBER CONNECTOR	1	48	013-3988-00	SWITCH(DETECTOR)	1
1-40	347-5419-00	FILM	1	49	331-1766-00	IC HOLDER	1
1-41	347-5429-00	FILM	1	50	051-2009-00	IC(POWER)	2
1-42	347-5444-00	SHADE	1	51	009-9006-80	CHOKE COIL	1
1-43	060-0150-00	PHOTO TR	1	52	074-1115-00	OUTLET SOCKET(ISO)	1
2	930-0738-83	TAPE MECHANISM	1	53	074-1126-10	OUTLET SOCKET(13P)	1
3	946-0060-00	DCP HOLDER ASS'Y	1	54	076-0433-20	PLUG(20P)	1
4	940-7780-60	INNER ESCUTCHEON ASS'Y	1	55	313-1675-00	HEAT SINK	1
5	946-0058-00	GEAR HOLDER ASS'Y	1	56	092-9000-00	ANT RECEPTACLE	1
6	946-0059-00	LEVER HOLDER ASS'Y	1	57	880-2080A	TUNER PACK	1
7	303-0457-02	UPPER COVER	1	58	331-1987-00	SHIELD CASE	1
8	746-0761-00	WASHER	4	59	855-5400-00	RCA PIN CORD	1
9	613-0642-00	FUN GEAR	1	60	714-3006-81	MACHINE SCREW1	
10	750-3226-00	SPRING	1	61	855-8000-01	MINI-DIN CORD	1
11	335-5314-00	ROLLER	2	62	313-1683-00	HEAT SINK	1
12	750-3227-00	SPRING	2	63	291-0078-00	STICKER(SEcurity)	1
13	738-1722-17	PRECISION SCREW	5	64	304-0440-00	LOWER COVER	1
14	335-5268-00	SPRING HOLDER(R)	1	65	286-8664-00	SETPLATE(ARX7370R)	1
15	335-5272-00	SPRING HOLDER(L)	1		286-8775-00	SETPLATE(ARX7370RW)	1
16	290-6598-00	LABEL	1	66	290-6573-00	LABEL(OUT-IN)	1
17	290-6577-00	LABEL(CAUTION)	1	67	750-3137-00	SPRING	2
18	716-1524-00	SCREW	2	68	714-5008-41	MACHINE SCREW	2
19	716-1556-00	SCREW	2	69	750-3225-00	SPRING	1
20	613-0643-00	GEAR	2	70	345-3799-00	CAP	6
21	613-0644-00	GEAR DAMPER	1	71	331-1990-00	MECHA BRACKET	1
22	716-1569-00	SCREW	1	72	714-2605-81	MACHINE SCREW	4
23	382-4387-00	BUTTON(EJECT)	1	73	347-5423-00	PROTECTION FILM	1
24	335-5273-00	HOOK	1	74	060-0057-56	AUTO FUSE(10A)	1
25	335-5265-00	LEVER	1	75	039-0887-00	ISO CONNECTOR PWB	1
26	743-1500-10	E-RING	2	76	001-0659-00	DIODE	1

# Tape mechanism section : 930-0738-83





NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4405-20	DECK PLATE ASS'Y	1	23	604-0046-00	TENSION PULLEY	1
2	960-4404-20	HEAD PLATE ASS'Y	1	24	816-2304-00	VINYL COAT WIRE(BLU)	1
3	960-4262-03	FF/REW-P-ASS'Y	1	25	610-0342-01	HEAD-P-ROLLER	1
4	960-4263-03	IDOLER-P-ASS'Y F	1	26	610-0343-00	GUIDE-A-ROLLER	1
5	960-4264-03	IDOLER-P-ASS'Y R	1	27	611-0091-03	FLYWHEEL	2
6	960-4266-20	MODE PLATE ASS'Y	1	28	802-4909-60	VINYL COAT WIRE(RED)	1
7	960-4269-05	ROLLER ASS'Y F	1	29	800-4909-60	VINYL COAT WIRE(BLK)	1
8	960-4270-05	ROLLER ASS'Y R	1	30	750-3148-00	IDOLER-P-SPRING	2
9	960-4348-02	REEL ASS'Y F	1	31	613-0285-02	IDOLER GEAR	2
10	960-4349-02	REEL ASS'Y R	1	32	613-0286-02	FF/REW GEAR	2
11	960-4389-03	EJECT SUB ASS'Y	1	33	613-0288-01	HELICAL GEAR	1
11-1	750-3020-01	SW-PLATE SPRING	1	34	613-0289-01	GEAR A	1
12	960-4338-07	BOTTOM SUB ASS'Y	1	35	613-0337-00	POWER GEAR	1
12-1	013-3951-11	SWITCH	1	36	750-2949-00	SLIDE SPRING	2
12-2	013-3953-01	SWITCH	1	37	750-2947-04	EJECT-P-SPRING	1
12-3	051-1776-00	IC	1	38	750-2946-02	PINCH SPRING	1
12-4	099-9926-01	FLEXIBLE PWB	1	39	746-0883-00	CLEANING PAD	1
12-5	746-0767-00	WASHER	2	40	746-0762-00	WASHER	1
12-6	960-4295-02	BOTTOM PLATE ASS'Y	1	41	630-2718-00	CHANGE LINK	1
13	960-4282-06	DETECT SUB ASS'Y	1	42	630-2598-05	EJECT LINK	1
14	960-4301-02	PLAY LINK ASS'Y	1	43	630-2600-01	ADJUST LINK	1
15	039-0053-00	SIDE PWB	1	44	630-2601-02	MOTOR PLATE	1
16	990-0709-01	REAR PWB ASS'Y	1	45	630-2626-04	PWB FRAME	1
16-1	013-3906-00	SWITCH	1	46	630-2642-01	GUIDE ARM	1
16-2	039-0368-00	REAR PWB	1	47	746-0761-00	WASHER(φ 1.6)	2
16-3	074-0978-20	OUTLET SOCKET	1	48	746-0724-00	WASHER(φ 1.1)	6
16-4	076-0353-08	PLUG	1	49	746-0624-00	WASHER(φ 2.1)	2
17	SMA-153-100	MAIN MOTOR ASS'Y	1	50	716-0833-10	AZIMUTH SCREW	2
18	SMA-131-100	POWER MOTOR ASS'Y	1	51	631-1992-02	PACK STOPPER	1
19	960-4406-02	PACK GUIDE ASS'Y	1	52	631-1993-01	SLIDE BUSH	2
20	816-2349-00	VINYL COAT WIRE(WHT)	1	53	716-0761-01	PWB SCREW(M2.6×4)	2
21	011-0307-28	HEAD	1	54	716-0484-00	SCREW(M2×2.5)	13
22	602-0118-00	BELT	1				

# **ELECTRICAL PARTS LIST**

## **Switch PWB section**

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 701	178-4732-78	0.047 $\mu$ F	D 718	001-0584-23	MA8075	R 715	117-1031-10	1/10W 10k $\Omega$
C 702	178-4732-78	0.047 $\mu$ F	D 719	001-0584-23	MA8075	R 716	117-2241-10	1/10W 220k $\Omega$
C 703	178-4732-78	0.047 $\mu$ F	D 720	001-0584-23	MA8075	R 724	032-0092-80	1/10W 330 $\Omega$
C 704	176-1011-00	100pF CH	D 721	001-0584-23	MA8075	R 725	032-0092-80	1/10W 330 $\Omega$
C 705	178-4732-78	0.047 $\mu$ F	D 722	001-0584-23	MA8075	R 726	032-0092-80	1/10W 330 $\Omega$
C 706	178-4732-78	0.047 $\mu$ F	D 723	001-0584-23	MA8075	R 727	117-1021-10	1/10W 1k $\Omega$
C 707	178-4732-78	0.047 $\mu$ F	D 724	001-0584-23	MA8075	R 728	117-1021-10	1/10W 1k $\Omega$
C 708	178-4732-78	0.047 $\mu$ F	D 725	001-0584-23	MA8075	R 729	117-1021-10	1/10W 1k $\Omega$
C 709	178-8212-78	820pF	D 726	001-0584-23	MA8075	S 702	013-6302-01	
C 710	042-0403-01	16V10 $\mu$ F TAN	D 727	001-0516-00	MA111	S 703	013-6302-01	
C 711	178-1042-78	0.1 $\mu$ F	IC 701	051-6013-00	LC75854W	S 704	013-6302-01	
C 717	183-1063-32	16V10 $\mu$ F	IC 702	051-6022-00	LC75824W	S 705	013-6302-01	
D 702	001-7030-00	NSPB310A	IR 701	060-4008-00		S 706	013-6302-01	
D 703	001-7030-00	NSPB310A	PL 701	017-0444-00	14V 50mA	S 707	013-6302-01	
D 704	001-7030-00	NSPB310A	PL 702	017-0444-00	14V 50mA	S 708	013-6302-01	
D 705	001-0516-00	MA111	PL 703	017-0444-00	14V 50mA	S 709	013-6302-01	
D 706	001-0584-23	MA8075	PL 704	017-0444-00	14V 50mA	S 710	013-6302-01	
D 707	001-0584-23	MA8075	Q 701	060-0150-00	PN268-R	S 711	013-6302-01	
D 708	001-0584-23	MA8075	R 701	117-4341-10	1/10W 430k $\Omega$	S 712	013-6302-01	
D 709	001-0584-23	MA8075	R 702	117-1031-10	1/10W 10k $\Omega$	S 713	013-6302-01	
D 710	001-0584-23	MA8075	R 703	117-1031-10	1/10W 10k $\Omega$	S 714	013-6302-01	
D 711	001-0584-23	MA8075	R 704	117-8231-10	1/10W 82k $\Omega$	S 715	013-6302-01	
D 712	001-0584-23	MA8075	R 705	117-1011-10	1/10W 100 $\Omega$	S 716	013-6006-00	
D 713	001-0584-23	MA8075	R 706	032-0092-80	1/10W 330 $\Omega$	S 721	013-6302-01	
D 714	001-0584-23	MA8075	R 707	032-0092-80	1/10W 330 $\Omega$	S 722	013-6302-01	
D 715	001-0423-22	MA4075	R 708	032-0092-80	1/10W 330 $\Omega$	S 723	013-6302-01	
D 716	001-0516-00	MA111	R 713	117-1241-10	1/10W 120k $\Omega$	S 726	013-6302-01	
D 717	001-0584-23	MA8075	R 714	117-3921-10	1/10W 3.9k $\Omega$			

## **Main PWB section**

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1	176-1801-00	18pF CH	C 413	173-2221-11	2200pF	C 517	183-2243-61	50V0.22 $\mu$ F
C 2	178-1032-78	0.01 $\mu$ F	C 414	173-2221-11	2200pF	C 518	183-2253-62	50V2.2 $\mu$ F
C 3	176-2211-00	220pF CH	C 415	173-2221-11	2200pF	C 519	176-2701-00	27pF CH
C 5	183-1053-61	50V1 $\mu$ F	C 416	042-0537-00	50V0.56 $\mu$ F	C 520	176-1811-00	180pF CH
C 6	178-6822-78	6800pF	C 417	042-0537-00	50V0.56 $\mu$ F	C 521	183-4753-51	35V4.7 $\mu$ F
C 7	178-1042-78	0.1 $\mu$ F	C 418	183-3343-61	50V0.33 $\mu$ F	C 522	178-6832-78	0.068 $\mu$ F
C 8	178-1022-78	1000pF	C 419	183-3343-61	50V0.33 $\mu$ F	C 523	183-4753-51	35V4.7 $\mu$ F
C 9	183-4763-31	16V47 $\mu$ F	C 420	183-1063-31	16V10 $\mu$ F	C 524	183-2263-11	6.3V22 $\mu$ F
C 10	178-1032-78	0.01 $\mu$ F	C 450	183-2263-11	6.3V22 $\mu$ F	C 525	173-4721-11	4700pF
C 12	178-1222-78	1200pF	C 451	183-2263-11	6.3V22 $\mu$ F	C 526	172-5631-11	0.056 $\mu$ F
C 13	178-8222-78	8200pF	C 454	172-3331-11	0.033 $\mu$ F	C 527	173-4721-11	4700pF
C 17	178-2232-78	0.022 $\mu$ F	C 455	172-3331-11	0.033 $\mu$ F	C 528	183-1063-31	16V10 $\mu$ F
C 18	178-2232-78	0.022 $\mu$ F	C 456	172-3331-11	0.033 $\mu$ F	C 529	183-4743-61	50V0.47 $\mu$ F
C 19	178-4732-78	0.047 $\mu$ F	C 457	172-3331-11	0.033 $\mu$ F	C 530	183-4753-51	35V4.7 $\mu$ F
C 20	178-1522-78	1500pF	C 458	183-2263-11	6.3V22 $\mu$ F	C 533	176-1011-00	100pF CH
C 21	176-1501-00	15pF CH	C 459	183-2263-11	6.3V22 $\mu$ F	C 607	178-4732-78	0.047 $\mu$ F
C 22	176-1801-00	18pF CH	C 460	183-1063-31	16V10 $\mu$ F	C 608	183-4763-11	6.3V47 $\mu$ F
C 23	178-1042-78	0.1 $\mu$ F	C 461	183-1063-31	16V10 $\mu$ F	C 609	042-0559-00	5.5V0.1 $\mu$ F
C 24	183-1053-61	50V1 $\mu$ F	C 462	183-1063-31	16V10 $\mu$ F	C 610	178-4732-78	0.047 $\mu$ F
C 25	176-1011-00	100pF CH	C 463	183-1063-31	16V10 $\mu$ F	C 613	178-4732-78	0.047 $\mu$ F
C 26	176-1011-00	100pF CH	C 464	178-4732-78	0.047 $\mu$ F	C 614	178-4732-78	0.047 $\mu$ F
C 27	176-1011-00	100pF CH	C 465	183-1063-31	16V10 $\mu$ F	C 615	042-0458-06	10V 22 $\mu$ F
C 28	176-1011-00	100pF CH	C 466	183-1063-31	16V10 $\mu$ F	C 616	176-1011-00	100pF CH
C 29	183-1063-31	16V10 $\mu$ F	C 467	183-1063-31	16V10 $\mu$ F	C 617	178-1032-78	0.01 $\mu$ F
C 30	183-4763-31	16V47 $\mu$ F	C 468	183-1063-31	16V10 $\mu$ F	C 618	178-1022-78	1000pF
C 101	183-2253-62	50V2.2 $\mu$ F	C 469	183-1063-31	16V10 $\mu$ F	C 651	178-4732-78	0.047 $\mu$ F
C 102	183-2253-62	50V2.2 $\mu$ F	C 470	183-1063-31	16V10 $\mu$ F	C 652	178-2232-78	0.022 $\mu$ F
C 103	183-2253-62	50V2.2 $\mu$ F	C 471	183-1063-31	16V10 $\mu$ F	C 653	176-1011-00	100pF CH
C 104	183-2253-62	50V2.2 $\mu$ F	C 472	183-1063-31	16V10 $\mu$ F	C 654	178-1022-78	1000pF
C 105	178-2232-78	0.022 $\mu$ F	C 474	178-4732-78	0.047 $\mu$ F	C 801	178-3312-78	330pF
C 201	183-4763-31	16V47 $\mu$ F	C 475	178-1032-78	0.01 $\mu$ F	C 802	183-2253-62	50V2.2 $\mu$ F
C 202	172-4731-11	0.047 $\mu$ F	C 501	183-1063-31	16V10 $\mu$ F	C 803	178-5612-78	560pF
C 203	183-1063-31	16V10 $\mu$ F	C 503	183-2243-61	50V0.22 $\mu$ F	C 804	183-4763-11	6.3V47 $\mu$ F
C 204	042-0447-00	16V2200 $\mu$ F	C 504	183-2253-62	50V2.2 $\mu$ F	C 805	178-1042-78	0.1 $\mu$ F
C 205	172-1041-11	0.1 $\mu$ F	C 505	176-2701-00	27pF CH	C 806	176-4701-00	47pF CH
C 206	178-4732-78	0.047 $\mu$ F	C 506	176-1811-00	180pF CH	C 807	176-8201-00	82pF CH
C 207	183-1063-31	16V10 $\mu$ F	C 507	183-4753-51	35V4.7 $\mu$ F	C 810	178-3312-78	330pF
C 208	183-1063-51	35V10 $\mu$ F	C 508	178-6832-78	0.068 $\mu$ F	C 811	178-5612-78	560pF
C 210	184-1073-32	16V100 $\mu$ F	C 509	183-4753-51	35V4.7 $\mu$ F	C 812	178-5612-78	560pF
C 253	183-1073-21	10V100 $\mu$ F	C 510	183-2263-11	6.3V22 $\mu$ F	C 813	178-2232-78	0.022 $\mu$ F
C 254	183-1063-31	16V10 $\mu$ F	C 511	173-4721-11	4700pF	C 814	178-2232-78	0.022 $\mu$ F
C 409	183-4753-51	35V4.7 $\mu$ F	C 512	172-5631-11	0.056 $\mu$ F	C 815	178-1032-78	0.01 $\mu$ F
C 410	183-4753-51	35V4.7 $\mu$ F	C 513	173-4721-11	4700pF	C 816	178-3312-78	330pF
C 411	183-4753-51	35V4.7 $\mu$ F	C 514	183-1063-31	16V10 $\mu$ F	C 818	178-1022-78	1000pF
C 412	173-2221-11	2200pF	C 515	183-1063-31	16V10 $\mu$ F	C 903	183-4763-31	16V47 $\mu$ F

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 904	183-1063-51	35V10 $\mu$ F	Q 213	101-1237-00	2SB1237	R 104	117-1021-10	1/10W 1k $\Omega$
C 908	178-1042-78	0.1 $\mu$ F	Q 214	102-2712-00	2SC2712	R 105	117-1021-10	1/10W 1k $\Omega$
C 909	042-0458-06	10V 22 $\mu$ F	Q 215	125-2004-03	RN1403	R 201	117-1031-10	1/10W 10k $\Omega$
C 910	178-4732-78	0.047 $\mu$ F	Q 215	125-2031-03	MUN2212	R 202	111-1221-91	1/4WS 1.2k $\Omega$
C 916	184-1073-32	16V100 $\mu$ F	Q 216	125-2004-03	RN1403	R 203	117-1031-10	1/10W 10k $\Omega$
C 917	178-1022-78	1000pF	Q 216	125-2031-03	MUN2212	R 204	117-1221-10	1/10W 1.2k $\Omega$
C 918	176-1011-00	100pF CH	Q 217	100-1162-00	2SA1162	R 205	117-2221-10	1/10W 2.2k $\Omega$
C 919	178-1022-78	1000pF	Q 218	102-2712-00	2SC2712	R 206	117-1031-10	1/10W 10k $\Omega$
C 920	176-1011-00	100pF CH	Q 222	102-2712-00	2SC2712	R 215	117-1801-10	1/10W 18 $\Omega$
C 921	178-1022-78	1000pF	Q 223	101-1237-50	2SB1237QR	R 218	117-1031-10	1/10W 10k $\Omega$
D 101	001-0584-20	MA8056	Q 224	125-2004-03	RN1403	R 219	111-1221-91	1/4WS 1.2k $\Omega$
D 208	001-0466-00	S5688B	Q 224	125-2031-03	MUN2212	R 220	117-4721-10	1/10W 4.7k $\Omega$
D 209	001-0466-00	S5688B	Q 251	103-2118-00	2SD2118	R 221	111-1591-91	1/4WS 1.5 $\Omega$
D 212	001-0516-00	MA111	Q 252	108-0241-50	2SK241Y.GR	R 222	111-1591-91	1/4WS 1.5 $\Omega$
D 213	001-0516-00	MA111	Q 450	125-0002-02	RN2402	R 223	111-1591-91	1/4WS 1.5 $\Omega$
D 214	001-0188-01	1S1885A	Q 450	125-0024-02	MUN2111	R 224	111-1591-91	1/4WS 1.5 $\Omega$
D 215	001-0589-00	1SS145	Q 451	125-0002-02	RN2402	R 225	117-1031-10	1/10W 10k $\Omega$
D 216	001-0330-00	1SS119	Q 451	125-0024-02	MUN2111	R 226	111-2221-91	1/4WS 2.2k $\Omega$
D 218	001-0330-00	1SS119	Q 452	125-2030-00	RN1410	R 227	117-1031-10	1/10W 10k $\Omega$
D 222	001-0377-11	MA4030M	Q 453	125-2030-00	RN1410	R 228	117-1831-10	1/10W 18k $\Omega$
D 252	001-0377-46	MA4091L	Q 454	125-2030-00	RN1410	R 229	117-4721-10	1/10W 4.7k $\Omega$
D 451	001-0516-00	MA111	Q 455	125-2030-00	RN1410	R 230	117-2231-10	1/10W 22k $\Omega$
D 452	001-0516-00	MA111	Q 456	103-1306-00	2SD1306	R 233	117-1011-10	1/10W 100 $\Omega$
D 501	001-0516-00	MA111	Q 457	103-1306-00	2SD1306	R 234	117-1011-10	1/10W 100 $\Omega$
D 502	001-0516-00	MA111	Q 458	103-1306-00	2SD1306	R 235	117-1021-10	1/10W 1k $\Omega$
D 601	001-0516-00	MA111	Q 459	103-1306-00	2SD1306	R 236	117-2221-10	1/10W 2.2k $\Omega$
D 602	001-0659-00	SLP-181B-51	Q 460	103-1306-00	2SD1306	R 237	117-1031-10	1/10W 10k $\Omega$
D 651	001-0516-00	MA111	Q 461	103-1306-00	2SD1306	R 238	111-1521-91	1/4WS 1.5k $\Omega$
D 652	001-0516-00	MA111	Q 466	125-2004-06	RN1406	R 239	117-2231-10	1/10W 22k $\Omega$
D 653	001-0516-00	MA111	Q 466	125-2020-06	DTC143ZK	R 240	117-2231-10	1/10W 22k $\Omega$
D 654	001-0330-00	1SS119	Q 467	100-1162-00	2SA1162	R 241	117-2241-10	1/10W 220k $\Omega$
D 801	001-0541-00	MA157	Q 468	125-2004-03	RN1403	R 245	111-4700-91	1/4WS 47 $\Omega$
D 901	001-0503-47	HZS9B3L	Q 468	125-2031-03	MUN2212	R 246	111-1221-91	1/4WS 1.2k $\Omega$
D 902	001-0466-00	S5688B	Q 601	100-1162-00	2SA1162	R 247	117-2221-10	1/10W 2.2k $\Omega$
IC 1	051-6201-00	LC72146M	Q 651	125-2004-03	RN1403	R 404	117-1031-10	1/10W 10k $\Omega$
IC 101	051-2009-00	TDA8561Q	Q 651	125-2031-03	MUN2212	R 405	117-1031-10	1/10W 10k $\Omega$
IC 102	051-2009-00	TDA8561Q	Q 652	125-2004-03	RN1403	R 406	117-1031-10	1/10W 10k $\Omega$
IC 201	051-3201-00	AN77L06	Q 652	125-2031-03	MUN2212	R 407	117-2431-10	1/10W 24k $\Omega$
IC 401	051-5200-90	CXA1332M	Q 653	102-2712-00	2SC2712	R 408	117-5611-10	1/10W 560 $\Omega$
IC 450	051-1811-00	BA3129F	Q 654	102-2712-00	2SC2712	R 409	117-5611-10	1/10W 560 $\Omega$
IC 451	051-0350-55	NJM4558M	Q 655	100-1162-00	2SA1162	R 410	117-2431-10	1/10W 24k $\Omega$
IC 452	051-0350-55	NJM4558M	Q 802	125-2004-03	RN1403	R 411	117-1021-10	1/10W 1k $\Omega$
IC 501	051-5008-00	M62419FP	Q 802	125-2031-03	MUN2212	R 412	117-2731-10	1/10W 27k $\Omega$
IC 502	051-0350-55	NJM4558M	Q 901	103-1802-60	2SD1802FA-R.S.T	R 432	117-1031-10	1/10W 10k $\Omega$
IC 601	052-1314-00	$\mu$ PD178018GC-515-3B9	Q 902	125-0002-02	RN2402	R 433	111-8211-91	1/4WS 820 $\Omega$
IC 651	051-0869-55	NJM2103M	Q 902	125-0024-02	MUN2111	R 435	117-1031-10	1/10W 10k $\Omega$
IC 652	051-0160-06	SN74LS07NS	Q 903	125-2004-02	RN1402	R 436	117-3321-10	1/10W 3.3k $\Omega$
IC 652	051-7400-06	HD74LS07FP	Q 903	125-2031-02	MUN2211	R 437	117-1231-10	1/10W 12k $\Omega$
IC 801	051-1819-00	SAA6579T	Q 904	100-1428-00	2SA1428	R 438	117-1021-10	1/10W 1k $\Omega$
IC 802	051-0350-55	NJM4558M	Q 905	125-2004-06	RN1406	R 440	117-3321-10	1/10W 3.3k $\Omega$
IC 901	052-3330-00	$\mu$ PD78058FGC-044-3B9	Q 905	125-2020-06	DTC143ZK	R 441	117-3321-10	1/10W 3.3k $\Omega$
IC 902	051-1014-05	TA7291F	R 1	117-8221-10	1/10W 8.2k $\Omega$	R 442	117-6821-10	1/10W 6.8k $\Omega$
L 1	010-2003-04		R 2	111-3311-91	1/4WS 330 $\Omega$	R 443	117-2231-10	1/10W 22k $\Omega$
L 201	010-2198-56	2.2 $\mu$ H	R 3	117-1831-10	1/10W 18k $\Omega$	R 445	117-3321-10	1/10W 3.3k $\Omega$
L 202	010-2330-24	22 $\mu$ H	R 4	117-1021-10	1/10W 1k $\Omega$	R 446	117-3321-10	1/10W 3.3k $\Omega$
L 203	010-2330-24	22 $\mu$ H	R 5	117-1231-10	1/10W 12k $\Omega$	R 447	117-6821-10	1/10W 6.8k $\Omega$
L 601	010-2330-12	2.2 $\mu$ H	R 7	117-1021-10	1/10W 1k $\Omega$	R 448	117-2231-10	1/10W 22k $\Omega$
L 602	010-2330-36	220 $\mu$ H	R 8	117-2241-10	1/10W 220k $\Omega$	R 450	117-6831-10	1/10W 68k $\Omega$
L 651	010-2285-56		R 9	117-1031-10	1/10W 10k $\Omega$	R 451	117-6831-10	1/10W 68k $\Omega$
L 901	010-2330-12	2.2 $\mu$ H	R 10	117-1031-10	1/10W 10k $\Omega$	R 452	117-6821-10	1/10W 6.8k $\Omega$
PL 201	017-0345-09		R 11	117-1031-10	1/10W 10k $\Omega$	R 453	117-6821-10	1/10W 6.8k $\Omega$
Q 1	100-1298-00	2SA1298	R 12	117-1021-10	1/10W 1k $\Omega$	R 454	117-6831-10	1/10W 68k $\Omega$
Q 2	100-1162-00	2SA1162	R 13	117-1031-10	1/10W 10k $\Omega$	R 455	117-6831-10	1/10W 68k $\Omega$
Q 3	103-1306-00	2SD1306	R 14	117-1021-10	1/10W 1k $\Omega$	R 456	117-6821-10	1/10W 6.8k $\Omega$
Q 4	125-0002-03	RN2403	R 15	117-3331-10	1/10W 33k $\Omega$	R 457	117-6821-10	1/10W 6.8k $\Omega$
Q 4	125-0024-03	MUN2112	R 16	117-1021-10	1/10W 1k $\Omega$	R 458	117-4731-10	1/10W 47k $\Omega$
Q 7	108-0669-00	2SK669	R 17	117-1231-10	1/10W 12k $\Omega$	R 459	117-4721-10	1/10W 4.7k $\Omega$
Q 101	125-2004-06	RN1406	R 18	117-2711-10	1/10W 270 $\Omega$	R 460	117-3311-10	1/10W 330 $\Omega$
Q 101	125-2020-06	DTC143ZK	R 19	117-1021-10	1/10W 1k $\Omega$	R 461	117-3311-10	1/10W 330 $\Omega$
Q 201	101-1237-00	2SB1237	R 20	117-2221-10	1/10W 2.2k $\Omega$	R 462	117-2231-10	1/10W 22k $\Omega$
Q 202	100-1162-00	2SA1162	R 21	117-2231-10	1/10W 22k $\Omega$	R 463	117-2231-10	1/10W 22k $\Omega$
Q 209	102-2712-00	2SC2712	R 27	117-5631-10	1/10W 56k $\Omega$	R 464	117-3311-10	1/10W 330 $\Omega$
Q 210	125-2004-03	RN1403	R 28	117-1011-10	1/10W 100 $\Omega$	R 465	117-3311-10	1/10W 330 $\Omega$
Q 210	125-2031-03	MUN2212	R 29	117-1001-10	1/10W 10 $\Omega$	R 466	117-2231-10	1/10W 22k $\Omega$
Q 211	101-1143-00	2SB1143	R 101	117-2231-10	1/10W 22k $\Omega$	R 467	117-2231-10	1/10W 22k $\Omega$
			R 102	117-1021-10	1/10W 1k $\Omega$	R 468	117-3311-10	1/10W 330 $\Omega$
			R 103	117-1021-10	1/10W 1k $\Omega$	R 469	117-3311-10	1/10W 330 $\Omega$

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R 470	117-2231-10	1/10W 22kΩ	R 524	117-1221-10	1/10W 1.2kΩ	R 675	117-2231-10	1/10W 22kΩ
R 471	117-2231-10	1/10W 22kΩ	R 525	117-4731-10	1/10W 47kΩ	R 676	117-4731-10	1/10W 47kΩ
R 473	117-1021-10	1/10W 1kΩ	R 526	117-4731-10	1/10W 47kΩ	R 677	032-0092-28	1/10W 62kΩ
R 474	117-1021-10	1/10W 1kΩ	R 601	117-1041-10	1/10W 100kΩ	R 801	117-2221-10	1/10W 2.2kΩ
R 475	117-1021-10	1/10W 1kΩ	R 602	117-1031-10	1/10W 10kΩ	R 802	117-3331-10	1/10W 33kΩ
R 476	117-3311-10	1/10W 330Ω	R 603	117-4721-10	1/10W 4.7kΩ	R 803	117-3321-10	1/10W 3.3kΩ
R 477	117-2231-10	1/10W 22kΩ	R 604	117-1031-10	1/10W 10kΩ	R 804	117-2231-10	1/10W 22kΩ
R 478	032-0092-90	1/4W 10kΩ	R 605	117-4731-10	1/10W 47kΩ	R 805	117-1031-10	1/10W 10kΩ
R 479	032-0092-90	1/4W 10kΩ	R 606	117-4711-10	1/10W 470Ω	R 806	117-1231-10	1/10W 12kΩ
R 480	032-0092-03	1/10W 15kΩ	R 607	117-1021-10	1/10W 1kΩ	R 807	117-1041-10	1/10W 100kΩ
R 481	032-0092-03	1/10W 15kΩ	R 608	117-1031-10	1/10W 10kΩ	R 808	117-1031-10	1/10W 10kΩ
R 482	117-3311-10	1/10W 330Ω	R 609	117-4731-10	1/10W 47kΩ	R 809	117-1031-10	1/10W 10kΩ
R 483	117-2231-10	1/10W 22kΩ	R 610	117-2231-10	1/10W 22kΩ	R 811	117-2211-10	1/10W 220Ω
R 484	032-0092-90	1/4W 10kΩ	R 613	117-1041-10	1/10W 100kΩ	R 901	117-1031-10	1/10W 10kΩ
R 485	032-0092-90	1/4W 10kΩ	R 614	117-2221-10	1/10W 2.2kΩ	R 902	117-1031-10	1/10W 10kΩ
R 486	032-0092-03	1/10W 15kΩ	R 615	117-1021-10	1/10W 1kΩ	R 903	117-1031-10	1/10W 10kΩ
R 487	032-0092-03	1/10W 15kΩ	R 616	117-1021-10	1/10W 1kΩ	R 904	117-1031-10	1/10W 10kΩ
R 488	117-3311-10	1/10W 330Ω	R 617	117-1021-10	1/10W 1kΩ	R 905	117-1031-10	1/10W 10kΩ
R 489	117-2231-10	1/10W 22kΩ	R 618	117-1011-10	1/10W 100Ω	R 906	117-2231-10	1/10W 22kΩ
R 490	032-0092-90	1/4W 10kΩ	R 619	117-1041-10	1/10W 100kΩ	R 907	117-1041-10	1/10W 100kΩ
R 491	032-0092-90	1/4W 10kΩ	R 620	117-1041-10	1/10W 100kΩ	R 908	117-1031-10	1/10W 10kΩ
R 492	032-0092-03	1/10W 15kΩ	R 621	117-1041-10	1/10W 100kΩ	R 909	111-2711-91	1/4WS 270Ω
R 493	032-0092-03	1/10W 15kΩ	R 622	117-1041-10	1/10W 100kΩ	R 910	117-1031-10	1/10W 10kΩ
R 494	117-3311-10	1/10W 330Ω	R 623	117-1041-10	1/10W 100kΩ	R 911	111-1221-91	1/4WS 1.2kΩ
R 495	117-2231-10	1/10W 22kΩ	R 624	117-1041-10	1/10W 100kΩ	R 912	111-1221-91	1/4WS 1.2kΩ
R 496	032-0092-90	1/4W 10kΩ	R 625	117-1041-10	1/10W 100kΩ	R 915	117-1041-10	1/10W 100kΩ
R 497	032-0092-90	1/4W 10kΩ	R 626	117-1041-10	1/10W 100kΩ	R 917	117-1041-10	1/10W 100kΩ
R 498	032-0092-03	1/10W 15kΩ	R 627	117-1041-10	1/10W 100kΩ	R 920	117-1041-10	1/10W 100kΩ
R 499	032-0092-03	1/10W 15kΩ	R 651	117-2231-10	1/10W 22kΩ	R 921	117-1041-10	1/10W 100kΩ
R 501	117-3331-10	1/10W 33kΩ	R 652	117-4731-10	1/10W 47kΩ	R 922	117-1041-10	1/10W 100kΩ
R 503	117-2731-10	1/10W 27kΩ	R 653	117-4731-10	1/10W 47kΩ	R 923	117-1041-10	1/10W 100kΩ
R 504	117-1031-10	1/10W 10kΩ	R 654	117-1541-10	1/10W 150kΩ	R 924	117-1041-10	1/10W 100kΩ
R 505	117-2231-10	1/10W 22kΩ	R 655	117-4321-10	1/10W 4.3kΩ	R 925	117-1041-10	1/10W 100kΩ
R 506	117-5131-10	1/10W 51kΩ	R 656	117-8221-10	1/10W 8.2kΩ	R 926	117-1041-10	1/10W 100kΩ
R 507	117-1241-10	1/10W 120kΩ	R 657	032-0092-81	1/10W 180kΩ	R 927	117-1041-10	1/10W 100kΩ
R 508	117-6821-10	1/10W 6.8kΩ	R 659	117-1041-10	1/10W 100kΩ	R 928	117-1041-10	1/10W 100kΩ
R 509	117-3331-10	1/10W 33kΩ	R 660	117-4721-10	1/10W 4.7kΩ	R 929	117-1041-10	1/10W 100kΩ
R 510	117-4721-10	1/10W 4.7kΩ	R 661	117-4721-10	1/10W 4.7kΩ	R 930	117-1041-10	1/10W 100kΩ
R 511	117-3331-10	1/10W 33kΩ	R 662	117-2231-10	1/10W 22kΩ	S 201	013-3988-00	
R 513	117-2731-10	1/10W 27kΩ	R 663	117-2231-10	1/10W 22kΩ	S 450	013-5102-01	
R 514	117-1031-10	1/10W 10kΩ	R 664	117-4721-10	1/10W 4.7kΩ	S 601	013-3932-00	
R 515	117-2231-10	1/10W 22kΩ	R 665	117-1031-10	1/10W 10kΩ	SUP1	060-0122-10	DSP-201M-S00B
R 516	117-5131-10	1/10W 51kΩ	R 666	117-1021-10	1/10W 1kΩ	T 201	009-9006-80	
R 517	117-1241-10	1/10W 120kΩ	R 667	117-1021-10	1/10W 1kΩ	VR 401	012-5123-06	10kΩ
R 518	117-6821-10	1/10W 6.8kΩ	R 668	117-4731-10	1/10W 47kΩ	VR 402	012-5123-06	10kΩ
R 519	117-3331-10	1/10W 33kΩ	R 669	117-1031-10	1/10W 10kΩ	X 1	061-1066-00	7.2MHz
R 520	117-4721-10	1/10W 4.7kΩ	R 670	117-2231-10	1/10W 22kΩ	X 601	060-1023-00	CST4.5MGW
R 521	117-1041-10	1/10W 100kΩ	R 671	117-5621-10	1/10W 5.6kΩ	X 801	061-3013-00	4.33MHz
R 522	117-1241-10	1/10W 120kΩ	R 672	117-1031-10	1/10W 10kΩ	X 901	060-0319-00	4.915MHz
R 523	117-1021-10	1/10W 1kΩ	R 673	117-1031-10	1/10W 10kΩ			

#### DCP sub PWB section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
PL 801	017-0345-09		S 801	013-3853-00	

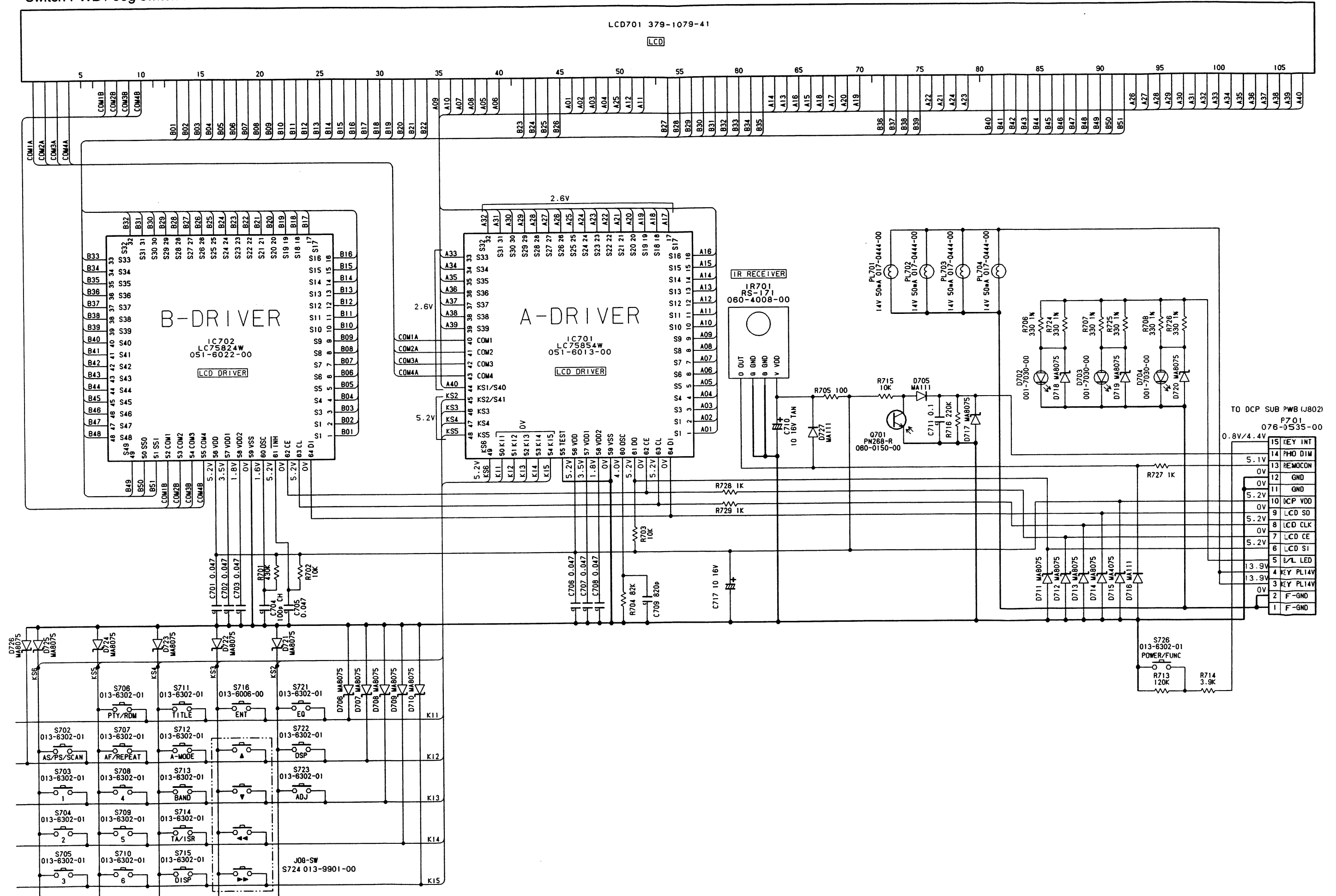
#### Jog switch PWB section

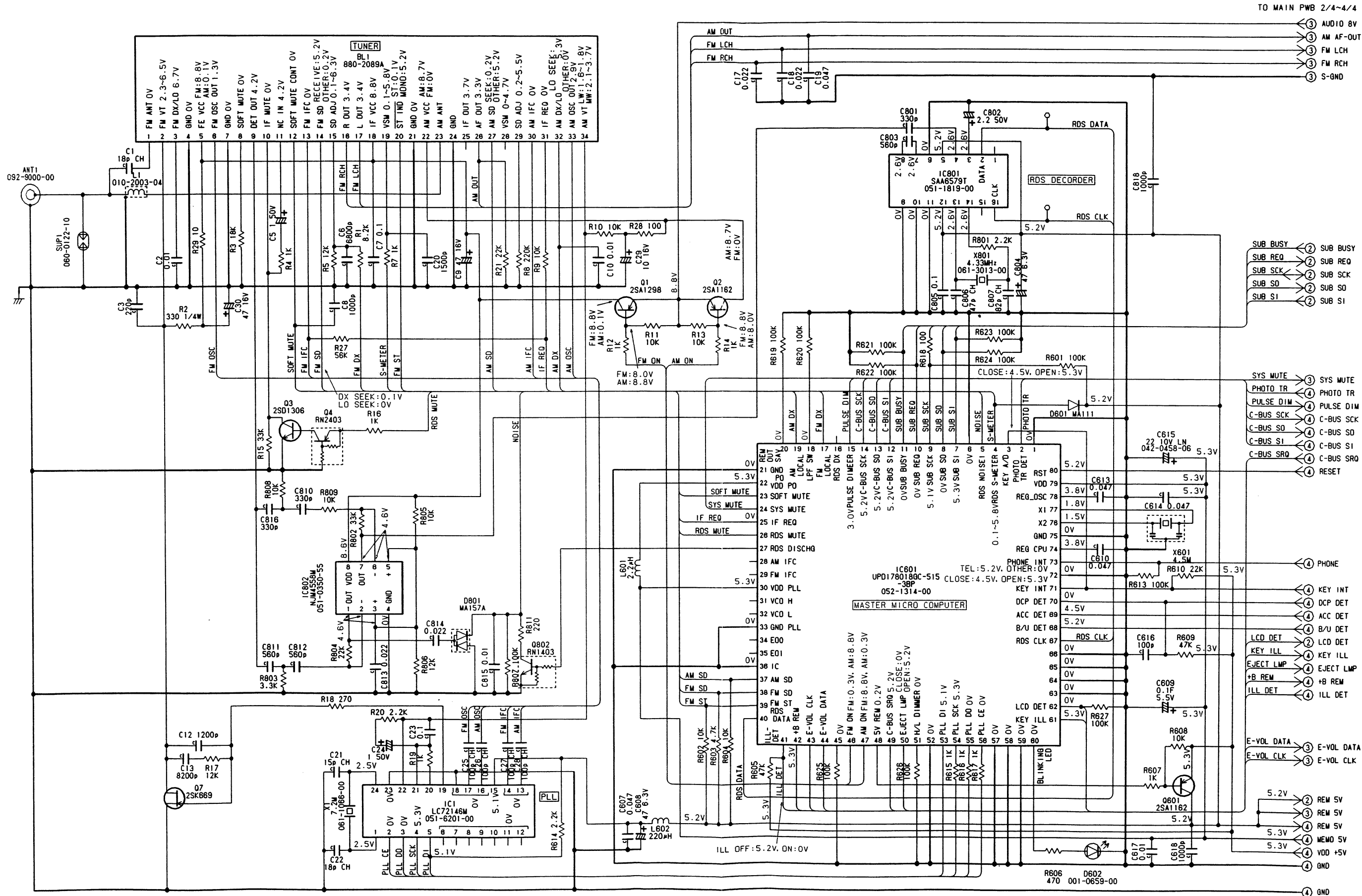
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S 724	013-9901-00	

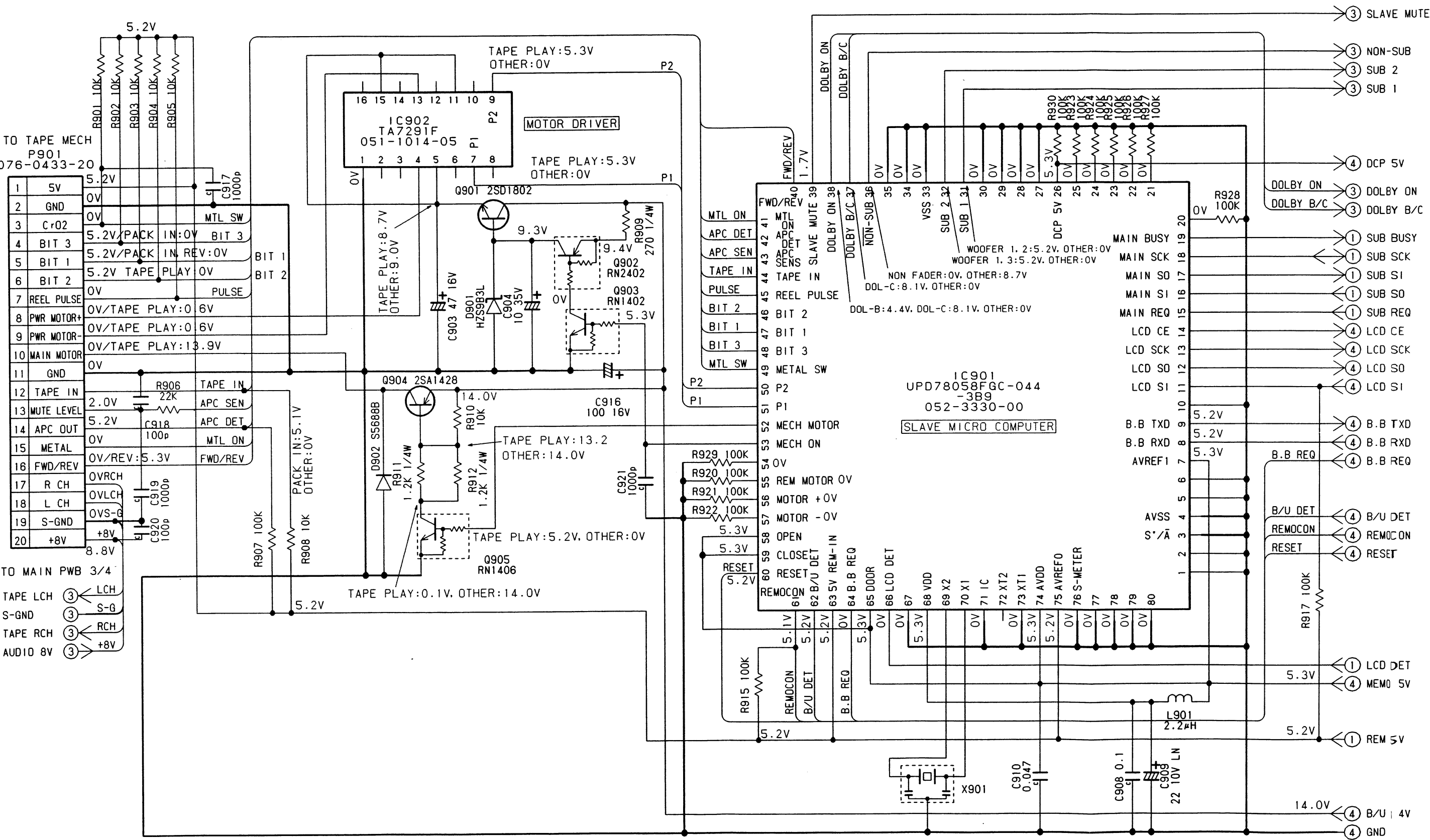
#### Tape mechanism section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1	175-3311-00	330pF CH	C 14	183-2263-31	16V22 μF	R 9	117-1531-10	1/10W 15kΩ
C 2	175-3311-00	330pF CH	C 15	183-4753-51	35V4.7 μF	R 10	117-1531-10	1/10W 15kΩ
C 3	175-3311-00	330pF CH	C 16	183-4753-51	35V4.7 μF	R 11	117-1131-10	1/10W 11kΩ
C 4	175-3311-00	330pF CH	IC 1	051-1546-10	BA3430S	R 12	117-3341-10	1/10W 330kΩ
C 5	183-4763-11	6.3V47 μF	IC 2	051-1776-00	NJL5801K	R 13	117-1811-10	1/10W 180Ω
C 6	042-0552-02	10V68 μF	R 1	111-1241-91	1/4WS 120kΩ	R 14	117-8211-10	1/10W 820Ω
C 7	042-0552-02	10V68 μF	R 2	111-1241-91	1/4WS 120kΩ	R 15	116-2231-10	1/8W 22kΩ
C 8	173-1231-10	0.012 μF	R 3	111-1241-91	1/4WS 120kΩ	R 16	117-1031-10	1/10W 10kΩ
C 9	173-1231-10	0.012 μF	R 4	111-1241-91	1/4WS 120kΩ	R 17	117-1031-10	1/10W 10kΩ
C 10	183-4753-51	35V4.7 μF	R 5	116-1011-10	1/8W 100Ω	R 18	111-5611-91	1/4WS 560Ω
C 11	183-1043-61	50V0.1 μF	R 6	116-1011-10	1/8W 100Ω	SW 1	013-3906-00	3PPB51
C 12	175-5611-00	560pF CH	R 7	117-3341-10	1/10W 330kΩ	SW 2	013-3953-01	
C 13	183-4743-61	50V0.47 μF	R 8	117-1131-10	1/10W 11kΩ	SW 3	013-3951-10	

# **CIRCUIT DIAGRAM** Switch PWB / Jog switch PWB section

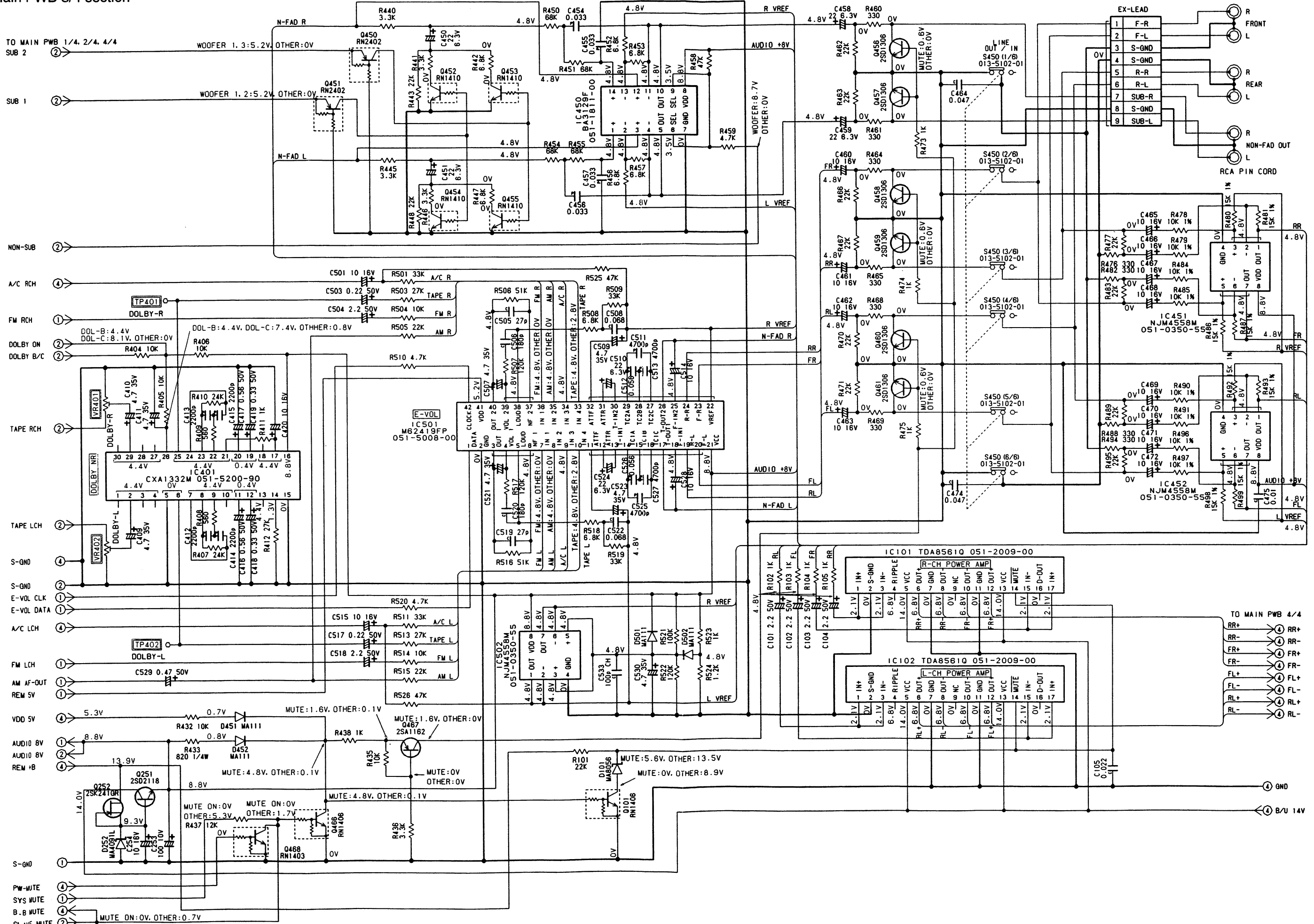








## Main PWB 3/4 section



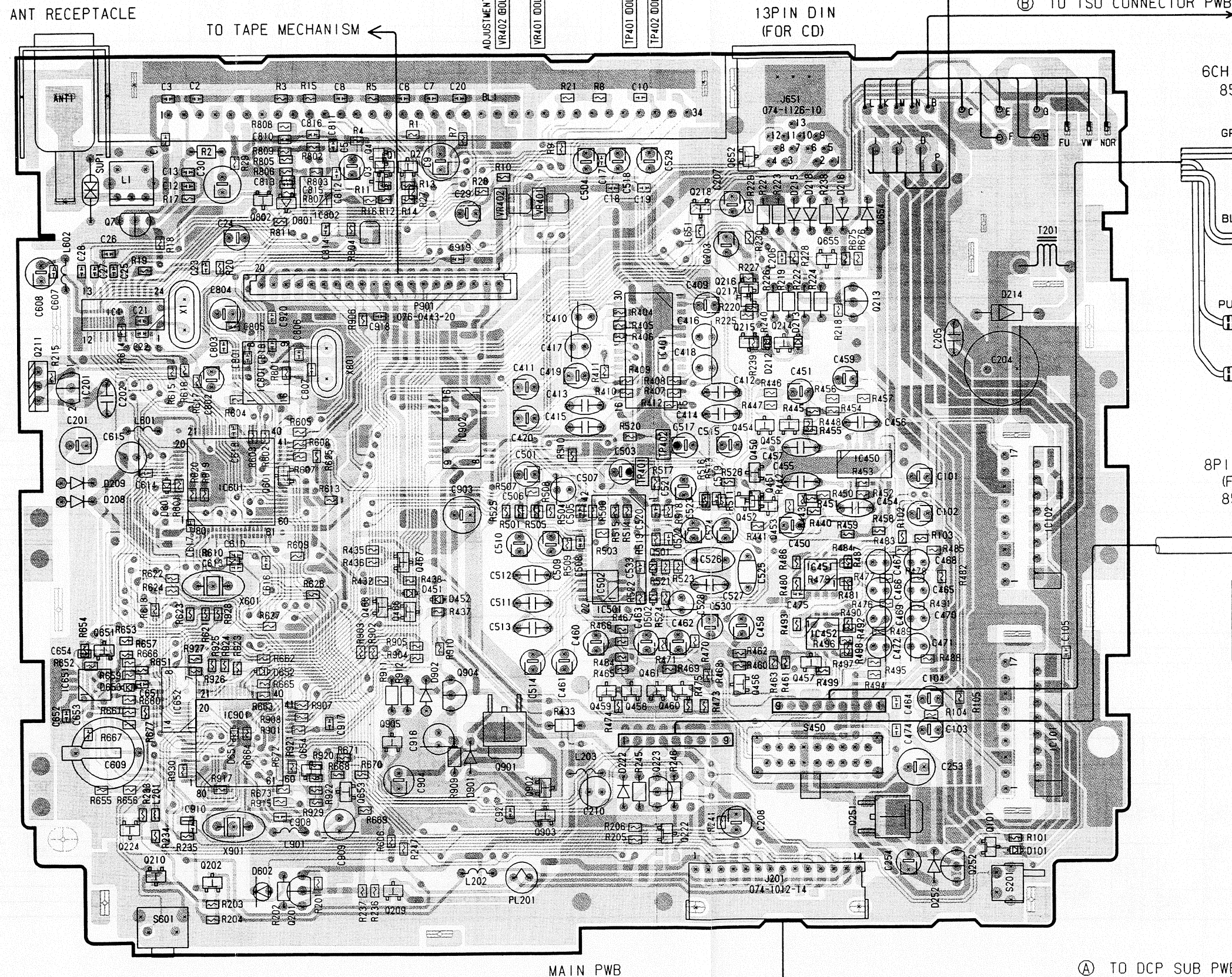
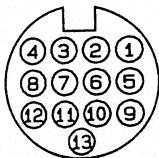




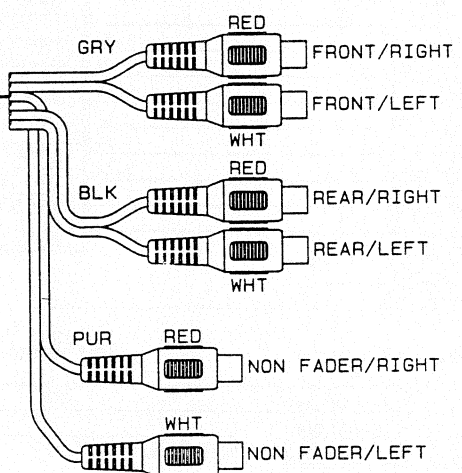
PRINTED WIRING BOARD

Main PWB section

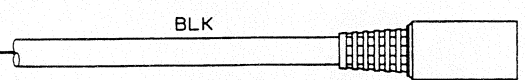
No.	Description	No.	Description
1	SO/SI	8	R-CH IN
2	SCK	9	NC
3	NC	10	+B
4	SRQ	11	ACC CONTROL
5	NC	12	GND
6	S-GND	13	NC
7	L-CH IN		



6CH RCA PIN CORD  
855-5400-00

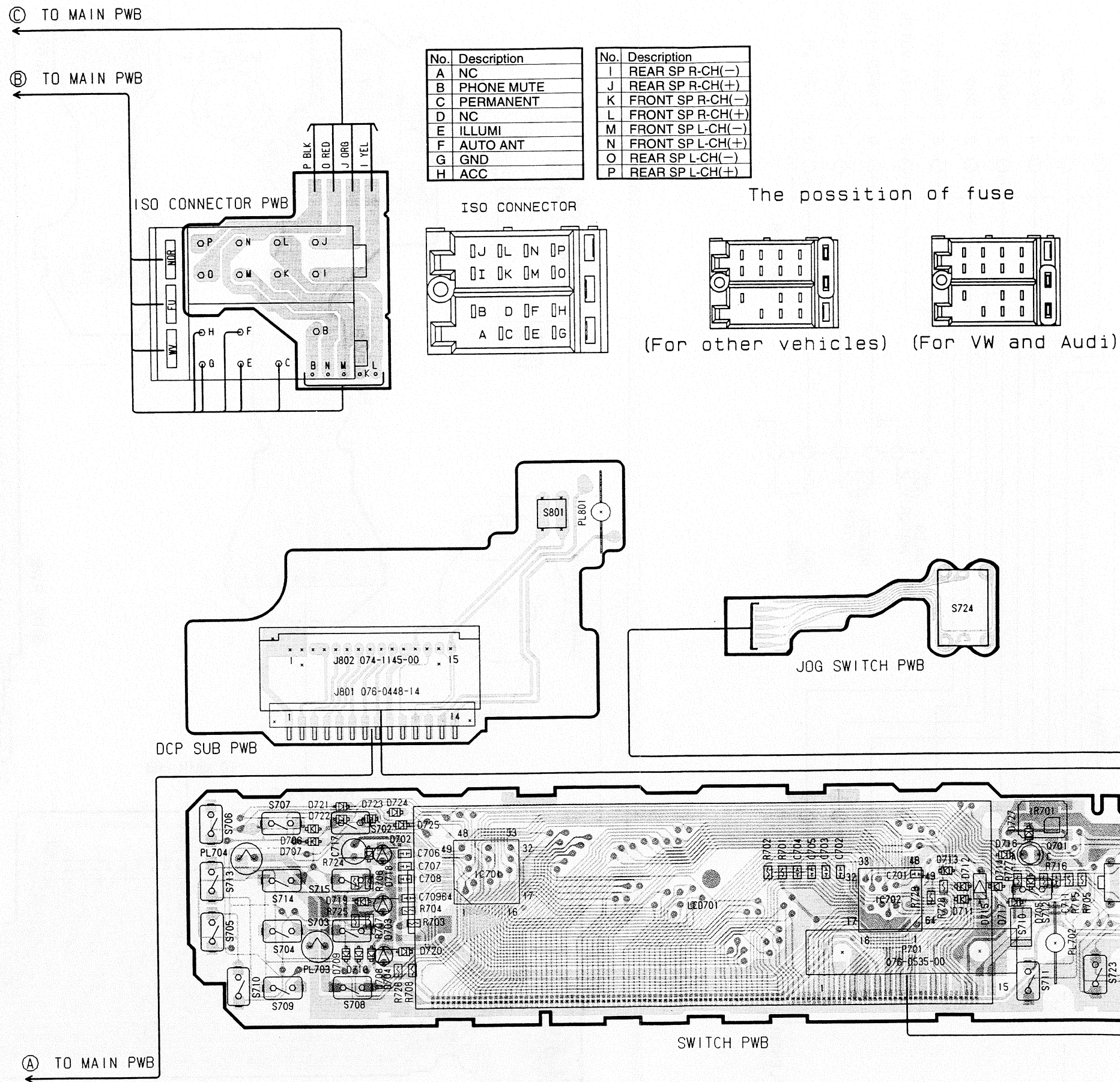


8PIN MINI DIN CORD  
(FOR DSP/EQ)  
855-8000-01



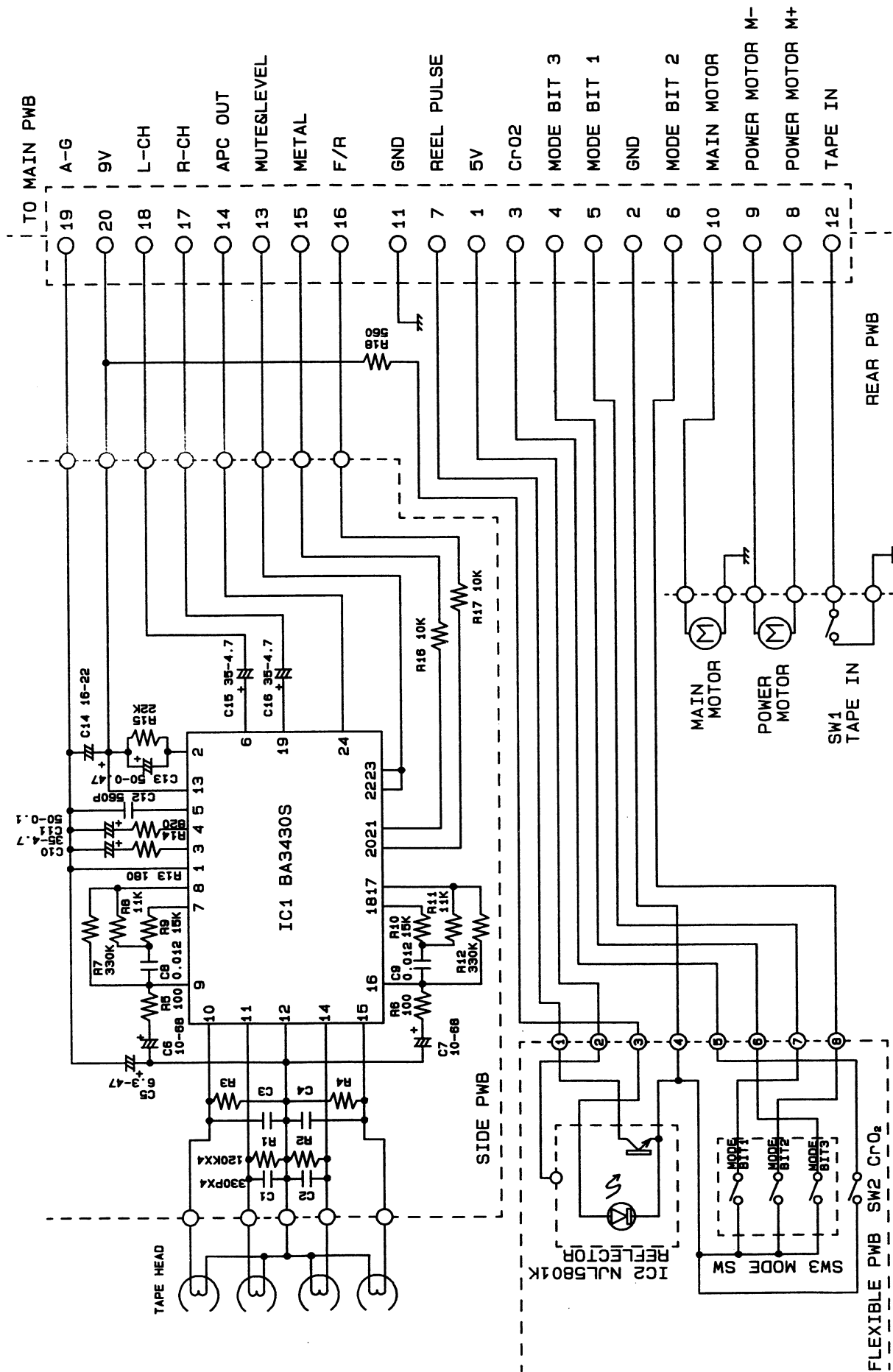
Pin No.	Color	Description
1	WHT	TX
2	GRY	RX
3	GRN	REQ
4	BLU	+B REM
5	BRN	MUTE
6	RED	B/U +14V
7	YEL	B/U +14V
8	BLK	GND





## CIRCUIT DIAGRAM

Tape mechanism section



## PRINTED WIRING BOARD

Tape mechanism section

